

To: Mount, Dave[Mount.Dave@epa.gov]
Cc: Hoff, Dale[Hoff.Dale@epa.gov]; Monson, Phil (MPCA)[phil.monson@state.mn.us]; Erickson, Russell[Erickson.Russell@epa.gov]
From: Swain, Ed (MPCA)
Sent: Wed 2/13/2013 8:32:48 PM
Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Dave,

Yes, I will describe what the field surveys have found—what's correlated with the presence and absence of wild rice. I'm working up the data now.

And certainly John and Brad can show you all the lab and the growth chambers with the wild rice assays.

Ed

From: Mount.Dave@epamail.epa.gov [mailto:Mount.Dave@epamail.epa.gov]
Sent: Wednesday, February 13, 2013 2:16 PM
To: Swain, Ed (MPCA)
Cc: Hoff.Dale@epamail.epa.gov; Monson, Phil (MPCA); Erickson.Russell@epamail.epa.gov
Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

That sounds workable to me. In addition to John and Nate showing you/us what they're doing, will you/Phil be discussing the other work that's going on in the project (e.g., the field survey work)?

Dave

☹ "Swain, Ed (MPCA)" ---02/13/2013 12:54:29 PM---Dave, Dale, and Russ, This morning I talked with John Pastor (and John's tech Brad) and Nate Johnson

From: "Swain, Ed (MPCA)" <edward.swain@state.mn.us>
 To: Dale Hoff/DUL/USEPA/US@EPA, Dave Mount/DUL/USEPA/US@EPA
 Cc: "Monson, Phil (MPCA)" <phil.monson@state.mn.us>, Russell Erickson/DUL/USEPA/US@EPA
 Date: 02/13/2013 12:54 PM
 Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Dave, Dale, and Russ,

This morning I talked with John Pastor (and John's tech Brad) and Nate Johnson (who is helping John

with chemistry and has a separate sediment incubation project for us), and here's what Phil and I are planning for a visit on Monday Feb 25th:

11:30 lunch somewhere near campus with John, Brad, and Nate
 After lunch (about 12:45) move to a more formal discussion at a UMD conference room.
 (Nate has classes from 1 to 2, and from 3 to 5, so Nate will join us from 2 to 3)

We will end our discussion about 3 pm, although Phil and I could stay later if needed.

We would greatly appreciate your involvement in as much of that visit as possible, starting with lunch. Maybe we should eat lunch on campus, just to reduce travel logistics (I'll ask John about that).

If you can't make lunch, we can make sure that we start looking at data when you can join us at the UMD conference room, where we will meet from 1:00 to 3:00.

Let me know what you can participate in!

-Ed

p.s.: Nate's sediment incubation experiment is to compare wintertime to summertime discharge of sulfate by incubating sediment in the lab at cold and warm temperatures, with a several month exposure of several hundred ppm sulfate. He will look at comparative sulfate penetration and sulfide development. The MPCA permitting staff would like to allow wintertime discharge if there isn't residual negative impact on wild rice. I have requested separate money to perform methylmercury analyses, as that is another endpoint for sulfate pollution.

From: Hoff.Dale@epamail.epa.gov [mailto:Hoff.Dale@epamail.epa.gov]
Sent: Tuesday, February 12, 2013 4:46 PM
To: Mount.Dave@epamail.epa.gov
Cc: Swain, Ed (MPCA); Monson, Phil (MPCA); Erickson.Russell@epamail.epa.gov
Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

I agree with Dave. I am wide open the 25-27th.

Dale

From: Dave Mount/DUL/USEPA/US
 To: "Swain, Ed (MPCA)" <edward.swain@state.mn.us>
 Cc: Dale Hoff/DUL/USEPA/US@EPA, "Monson, Phil (MPCA)" <phil.monson@state.mn.us>, Russell Erickson/DUL/USEPA/US@EPA
 Date: 02/07/2013 04:40 PM
 Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Hi Ed--

Speaking for myself, I'd much rather spend a couple intensive hours talking about the nitty gritty than spending 6 hours driving, an overnight, and 12 hours or lower tech meetings. I'm guessing Russ and Dale will feel the same way.

Other than something at 10:00 Monday Feb 25 (which I could miss if I absolutely had to), I'm pretty open Feb 25-27. I assume Russ and Dale will respond for themselves. Meeting here at EPA is fine if that works for you, or we could go down to the Duluth MPCA offices.

We'll be interested to see what you're finding.

Dave

From: "Swain, Ed (MPCA)" <edward.swain@state.mn.us>

To: Dave Mount/DUL/USEPA/US@EPA, "Monson, Phil (MPCA)" <phil.monson@state.mn.us>

Cc: Dale Hoff/DUL/USEPA/US@EPA, Russell Erickson/DUL/USEPA/US@EPA

Date: 02/07/2013 04:23 PM

Subject: RE: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Dave,

Thanks for asking! The meeting will not be available via remote video or audio.

However, our wild rice team has conferred, and we think that we would like to get your input, but in more depth than this meeting would allow—and, if possible, before this meeting.

Would you be open to a visit by Phil and me on one of the three days prior to this meeting (Mon-Wed, Feb 25-27)? We would like to show you our data and receive some feedback regarding our straw plans for the next field season, which includes more lab bioassays by John Pastor. Your feedback prior to the public meeting would help us solidify our presentations regarding data interpretations and plans.

This will all be last-minute; our 2012 field data (with lab analyses) is just being ported into our database, and it is my responsibility to see what obvious patterns emerge—so I don't yet know what I would show you.

John Pastor has not yet had success growing wild rice seedlings for exposure to sulfate and sulfide, so John started just performing germination exposure experiments, and experiments with just-sprouted seeds (which he does in test-tubes, with an N of 20 at each treatment level). He started with a range-finder test on sulfate, from 10 ppm to 1,600 ppm sulfate—we expected sulfate to only have an effect at the very highest concentrations, and that sulfide (which we still haven't gotten to) would be the real impact. Surprisingly, the germination experiment showed reduced elongation of the mesocotyl above 10 ppm. He confirmed with a second experiment. In both experiments there was a mix of sodium sulfate and magnesium sulfate, so this week he will start an experiment with different cation ratios to see if it is one of those two cations that is affecting the rice, rather than the sulfate itself.

So, it may be appropriate to invite John Pastor to any meeting that we can arrange with you.

Please let me know what you think of spending 2 or 3 hours in an intensive session looking at our data and plans, and what your availability might be on one of those days.

Regards,
Ed

From: Mount.Dave@epamail.epa.gov [<mailto:Mount.Dave@epamail.epa.gov>]

Sent: Wednesday, February 06, 2013 12:47 PM
To: Swain, Ed (MPCA); Monson, Phil (MPCA)
Cc: Hoff.Dale@epamail.epa.gov; Erickson.Russell@epamail.epa.gov
Subject: Fw: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Ed/Phil--

Can you give us some insight as to how important it would be to MPCA for one or more of us from EPA to attend this meeting? Will it be available in Duluth via remote video?

Thanks.

Dave

----- Forwarded by Dave Mount/DUL/USEPA/US on 02/06/2013 12:45 PM -----

From: "Engelking, Pat (MPCA)" <pat.engelking@state.mn.us>

Ex. 6 - Personal Privacy

Date: 02/06/2013 09:57 AM

Subject: Wild Rice Standards Study Mid-Project Review Meeting Invitation

Hello all-

You are invited to a Wild Rice Standards Study Mid-Project Review meeting hosted by the Minnesota Pollution Control Agency on February 28, 2013-March 1, 2013 at Dakota Lodge in West St. Paul (directions below). You are being invited because you either helped develop the initial study protocol or you've provided input or advice since then on the study. The purpose of the meeting is to report on study

progress to date in each of the main areas of investigation (field survey, hydroponic lab experiments, sediment incubation experiments, bibliography and mesocosms) and to discuss options and approaches for the final year of the studies in 2013. An agenda for the meeting is attached. Additional background information will be provided as we get closer to the meeting date.

The meeting will take place from 12:30 p.m. - 4:30 p.m. Thursday, February 28 and continue on Friday, March 1 from 8 a.m. - 1 p.m. An Open House and Poster session for a wider audience will be held in conjunction with the Mid-Project Review from 6-8 p.m. on Thursday, February 28. We will be providing a break and dinner for participants on March 28 and continental breakfast and lunch on March 1.

For those of you who need overnight accommodation, we would suggest the Country Inn and Suites, 5653 Bishop Avenue, in Inver Grove Heights. The hotel is located a few minutes further south on Highway 52 at the Upper 55th Street exit. Please mention that you will be attending an MPCA meeting to get the government rate of \$83 for this hotel. Directions and reservation and local numbers for the hotel are listed below.

Please let me know via e-mail if you are able to attend as this will help us plan for meals and refreshments. We are looking forward to a good discussion of the Wild Rice Standards Study and hope you are able to participate. Please feel free to call me at 651-757-2340 or reply to this e-mail if you have questions.

Directions to Dakota Lodge:

Dakota Lodge is located in Thompson County Park, about 5 minutes south of the MPCA on Highway 52. Highway 52 S to Butler Avenue exit.
West on Butler Avenue.
Left on Stassen Lane (first 4-way stop sign).
Address: 1600 Stassen Lane, West St Paul 55118

Location, directions and numbers for hotel

Country Inn and Suites
5653 Bishop Avenue
Inver Grove Heights, MN 55076
Directions
Highway 52 S to Upper 55th St. exit (first exit past 494)
Right on Upper 55th
Left at Bishop
Reservations:
+1 (800) 596-2375 (US/Canada Toll-free)
Telephone: +1 (651) 450-1100

Pat
Patricia Engelking
Environmental Analysis and Outcomes
Minnesota Pollution Control Agency
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[attachment "WR Standards Study Mid-project mtg agenda.pdf" deleted by Dave Mount/DUL/USEPA/US]